LOADSTAR LETTER

"The Biggest, The Best" • Since 1984 • Number 6 • January 1994

CMD Unveils 1351 Mouse Clone

Those guys at Creative Micro Designs have done it again. Recently a 1351 Mouse crunch left new GEOS users without the preferred means of navigating the system. Up until now CMD has been importing real "free-moving" mice from Europe for their customers rather than sell them joystick emulating mice. Not satisfied with relying on imports, the technical wizards at CMD sat down and designed a new all-American mouse for GEOS and other mouse users.

The new mouse will have a three-button configuration. The middle button will be an automatic "double click". CMD hopes to have the Mouse available for retail sale by the time you read this.

When asked about all the mouse activity, Doug Cotton, of CMD replied, "We manufacture and distribute GEOS, and we have to support it. We do that in our floppy drives, our hard drives, RAMLink, and now our mice. We believe in support."

In the works, CMD has a new trackball on the horizon, with full mouse movement, not joystick emulation. ❑

Apple Clashes with Texas County Over Homosexual Benefits

Negotiations broke down between Apple Computer and Williamson County when they found out about Apple's policy of granting the same health benefits to gay and lesbian employees with same-sex spouses that it does to heterosexual spouses. Williamson County called this "wrong" and has refused to give Apple a $750,000 tax incentive to build a new plant in the county. At least 1000 local jobs and a $20,000,000 boost would go to some other county. Pressure was piled on by Governor Ann Richards and local officials who felt that jobs was the issue, not the liberal policies of one company or the conservative policies of another. The council reversed itself.

Charlie Culpepper, mayor of the Round Rock, said that he didn't agree with same-sex marriages or government micromanaging business. Families need jobs. A local Methodist Minister agreed that while he didn't agree with the policy, the government should have no say in the matter. ❑

Loadstar Approaches 10th Year

The milestone approacheth. *LOADSTAR's* tenth anniversary will be a significant event in personal computing history. Only *SOFTDISK*, the Apple magazine on disk, also published by *Softdisk Publishing*, has endured longer. Thousands of computer companies and hundreds of magazines have come and gone, many for the *C-64*. *LOADSTAR* is the only magazine that's been there all the way, and we hope to see the new century. All you have to do is keep subscribing, and we will.

Stay tuned, and subscribed, for our gala 120th issue in May 1994. We don't know how we plan to celebrate, but we promise it will be special. ❑

Loadstar Receives Numerous Reports Of Mail Fraud

LOADSTAR has received letter after letter in the past month, detailing incomplete transactions with only a couple of Commodore companies thought to be reputable, even by us. A victim reported to *LOADSTAR* that he had first called the *Better Business Bureau*, and they reported there were no complaints against the company. The subscriber then wrote a check to the company, received no product, and was flatly refused a refund. Credit for another purchase can always be refused by the purchaser. Vendor policy is not law. Customers who have ordered a product and have received nothing after complaints to the vendor, should report the vendor to the postmaster. The Postal Service can and *will* handle it. *LOADSTAR* can't, and the Postal Service will do it for free with no legal expense to the victim. But victims *must* report.

The Better Business Bureau says they won't have any complaints on file as long as victims don't supply them in writing. Phoning the local *Better Business Bureau* may cause the vendor's local *BBB* to contact the vendor and urge them to ship merchandise, but what really helps is a *written* complaint to the *BBB*.

The *BBB* supplied *LOADSTAR* with the address of a consumer advocate group that may help with troublesome mail order vendors:

Mail Order Action Line
6 East 43rd St
New York, New York 10017 ❑

CMD Launches 8-bit Magazine

This is no rumor. *Creative Micro Designs*, in Longmeadow, MA, will start a new Commodore publication in early 1994. When asked why by *LOADSTAR*'s Longmeadow correspondent, CMD responded that they were doing their part to keep the market alive.

Tentatively called *CMD NEWS*, the magazine will give revived venue for advertising as well as news, reviews, and columns from industry movers and shakers such as *LOADSTAR, FGM* and others. ❑

Bad Batch of EPROMs Slow Super Snapshot Shipments

According to *Software Support International* technical support in Vancouver, Washington, *LMS Technologies* was ready to manufacture another batch of *SUPER SNAPSHOT* cartridges, but the 64K EPROMs (Erasable Programmable Memory) purchased proved to be defective. *LMS* has rectified the problem, and *SUPER SNAPSHOT* should be flowing into the homes of Commodore users by the time this newsletter is published.

There have been rumors floating on the *Internet* in *comp.sys.cbm* that *LMS Technologies* is farming out applications

© 1993 by Softdisk Publishing. The Loadstar Letter is published monthly by Softdisk Publishing as a companion to *LOADSTAR* and *LOADSTAR 128 Quarterly*. No part of this newsletter may be reproduced without the permission of Softdisk Publishing. Contacts: INTERNET: JJONES36@GENIE.GEIS.COM GEnie: JJONES36 FIDONET CBM Conference: Jeffrey Lyn Jones US MAIL: ATTN Jeff Jones, Softdisk Publishing P.O. Box 30008, Shreveport, LA 71130-0008 318/221-8718.

from programmers for a *SUPER SNAPSHOT V6*. At least for now, this rumor is untrue according to *Software Support International*, who claims that they would know of it before *Internet*, being the sole distributor. ❑

LOADSTAR Ships 3.5 Inch Disks!

LOADSTAR #116 shipped on 3.5-inch disks to everyone who voted for 3.5 inch disks over the past half year. Any reader who would prefer 3.5-inch versions of *LOADSTAR* is asked to call or write and request a change in subscription type.

Softdisk's magnificent non-commodore database is still having trouble adapting to the added fields for the LOADSTAR magazines. Bear with us and pardon our dust as we expand. ❑

Compton's Demands Anger Multimedia Developers

Compton's, who brought us the first electronic encyclopedia in 1989, received patent #5,241,671 on "multimedia" programs on August 31, 1993. The patent is titled "Multimedia Search System Using A Plurality Of Entry Path Means Which Indicate Inter-relatedness Of Information. Compton's insists that now any software company publishing "multimedia software, under threat of legal action, must pay a licensing fee. They are asking for a "modest" 1% licensing fee from all companies producing "multimedia" software increasing to 4% for those who don't respond by June 30, 1994.

Reaction from software developers has been nothing short of caustic, and with good reason. AT&T, MCI, and other huge tele-communication companies are setting up huge ultra-fast communication data highways that will be graphical, contain databases, and be subject to Compton's patent. Not only that, the very nature of software is headed toward the graphical, digitized intuitive data retrieval system.

"This is the most arrogant move I've ever seen..." said one developer. Many companies are coming forth demanding that the patent be lifted because they had been using similar technology prior to Compton's. One such company is The Library Corporation, which claims to have been using "multimedia" in 1984. Though Compton's description of "multimedia" is very technical, many fear that any software product with digitized graphics, digitized sound and any kind of information information database could be considered Compton's brand of "multimedia" by ill-informed judges and juries. Many would argue that CD games, with digitized graphics and animation are "multimedia" and thus in debt to Compton's.

Compton's New Media claims that the patent "isn't dependent on the delivery method for multimedia." So actual algorithms and computers don't matter. They claim that not only software, but interactive television and graphical online services are subject to this patent.

The Interactive Multimedia Association (IMA) is comprised of over 250 organizations with very deep pockets says that it will support legal efforts to overturn the patent. The group says that it's more concerned with the issue of what it calls "broad, non-technical multimedia patents" by the United States Patent Office. "The Patent Office is issuing extremely sweeping patents that are for basic computer and multimedia processes that have been used for many years which are obvious and not novel." says Phillip Dodds, IMA director. ❑

Teenager Jailed For Computer Death Threat

12/16/93 HOUSTON, TEXAS, U.S.A., 1993 DEC 16 (NB) -- A Houston, Texas teen, already on probation for trying to hire someone to kill a romantic rival, has been given a 30-day jail term for sending death threats via a computer bulletin board.

In addition to the 30 day jail term, State District Judge Dennis Collins also ordered Shawn Kevin Quinn to spend three months in the county's boot camp for young offenders. Boot camps include a regimen of physical training and strict discipline.

Quinn got into trouble with the law when he found himself in an online discussion on a computer bulletin board about his probation. The party Quinn was discussing his situation with online reportedly told the teen he is "a whiny complainer who probably belonged in jail."

Quinn, apparently incensed by the unidentified critic, responded, "I deserve freedom, criminal conviction or not." He called the person's comments "stupid" and "rude" and said he would "probably think about getting a gun or other lethal weapon, Brady bill or not, and you can guess the rest. The moment I escaped or got parolled, guess what I'd do?"

Quinn was placed on 10 years probation in August of this year after pleading no-contest to charges that he gave seven Atari computer games and $5.30 to a district attorney's undercover investigator to assassinate a fellow high school student. The target was another boy who was favored by a girl Quinn was reportedly enamored of. ❑ (Jim Mallory/19931215)

New Texas Instruments Chip Called Revolutionary

12/09/93 DALLAS, TEXAS, 1993 DEC 9 (NB) -- Texas Instruments researchers have demonstrated a "revolutionary" new computer chip that the company says operates over three times faster, holds three times more functions than present chips, and operates at room temperature.

The chip, which could be the key to development of future generations of computers, operates on the principle of quantum mechanics, a principle that says electronics will behave as a wave and pass through classically impenetrable barriers under certain conditions.

The theory was once considered just a laboratory novelty, but TI researchers say they have demonstrated the quantum effect chip at room temperature. Prior to the TI development, devices based on quantum effects were limited to operating at minus 320 degrees Fahrenheit, conditions too cold for practical applications such as desktop and portable computers.

Gary Frazier, nanoelectronics manager at TI, called the demonstration "a significant breakthrough" and said the new devices can now be designed into commercial systems without the need for special cooling. TI says its scientists developed the new chip using a technique called "resonant tunneling transistors." The chip consists of 17 transistors which replace as many as 40 conventional transistors for the same type circuit on a conventional chip.

TI says replacing conventional transistors with resonant tunneling transistors would mean a significant leap in the number of functions that could be performed by a single chip. Resonant tunneling circuits perform an equivalent function with fewer transistors than are currently used.

"This opens up the possibility for smaller computers that operate faster than computers using today's technology," according to Frazier. He said practical applications of quantum devices are five to six years away. Applications include: microwave, X-band analog-to-digital converter chips for military applications; improved performance of digital cellular telephones; top of the line computers and faster workstations; and high-bandwidth digital video processing in high-resolution and high-definition television

(HDTV).

TI says farther down the road, extremely sophisticated quantum effect ICs could turn today's computer dreams into reality, predicting it might be possible to create a computer system that can think, see, and speak as a human being does by putting all the circuitry of a supercomputer on a single chip.

TI says its scientists have been working on quantum effect devices since 1982. The work is funded in part by contracts from the Air Force Wright Laboratories, the Advanced Research Projects Agency, and the Office of Naval Research. ❑

(Jim Mallory/19931209/Press Contact: Sheree Fitzpatrick, Texas Instruments, 214-995-2984)

Review: The Sharp JX-9400 Affordable Laser Printer

Ah, the fresh smell of ozone in my own home! The first time I considered purchasing a laser printer was almost eight years ago, when a laser printer for under $1000 was a steal. Now that I edit a newsletter, I have a need. I needed laser perfect output, and the inherent convenience of these types of printers. When I saw the *Sharp JX-9400* advertised in a *J&R Music World* catalog for $489, I agonized over the purchase for weeks. It listed, among other low cost lasers, for $489.

J&R killed five trees to let me know that the added packing material shipped with my printer was environmentally correct. Of course the 4 tons of custom styrofoam supplied by *SHARP* don't count.

The setup was rather harrowing. If I see more than one "If you do this step wrong, you'll ruin your device" sticker, I panic. I take warnings seriously because I don't want to have my new equipment repaired before I can use it. Laser printers are delicate instruments, and I was careful. The photoconductor cartridge shouldn't be exposed to too much light, and I was unpacking it under a bright light on my waterbed (crazy I know). I'd say it takes an 11th grade education and careful re-reading to get through the setup.

The printer comes standard with a 250-sheet paper tray and 512K memory, which isn't enough for heavy graphics. With *GEOS*, you'll need at least a meg. Here's why: eight dots on the printed page add up to one byte in the printer's memory. So at 300 DPI a row of dots across an 8 inch page is 2400 dots or 800 bytes. Going down the page we have 10.5 inches of coverage. That's 3150 dots. Multiply the two and we have 7,560,000 dots (bits) or 969,500 bytes, almost a meg of memory. I ordered the 1 meg board, but got the 2 megger (I'll be in confession for months). Since I had the 2 meg board with the printer, I had the extra step of pulling out the circuit board and popping in the memory. Naturally I was terrified through the entire process because the board was in there rather snugly, and I thought I'd break it getting it out. In retrospect it wasn't that difficult.

The step up to the laser printer is a big one, even a 300 DPI non postscript el cheapo laser printer for the masses. I expected no frills and much frustration with this low cost printer. If this is the bottom of the barrel, laser country is nice indeed. Everything is nicer, right down to the two slick, confusing manuals.

The printer doesn't seem cheap at all. It has an LCD display on the front and eight buttons that let you navigate through the menus. It even tells you when it's sick and what needs servicing. It warns you about 500 pages before the toner needs replacing. Hopefully that won't be for well over a year with me since the supplied cartridge lasts at least 5000 pages. The diagrams in the operation manual make the menus seem more complicated than they really are. This printer is very easy to use. There are no DIP switches to change. Configuration is handled through the LCD menu system. Any changes you make will survive a power outtage.

The fourth page I printed jammed and I had to clear the misfeed, but after that I've printed maybe 200 pages without another jam. Printing is now carefree, and the pages come out face down and stacked in order. Print speed is 6PPM (pages per minute) and that's fast enough for me. It seems faster than that. When printing graphics, it's slower than my *Canon BJ-5* Bubble Jet printer. Since the laser printer is a *page printer*, it doesn't start printing pages until an entire page is uploaded from the computer. For text, that's only 1000-2000 bytes of information. Full-page graphics take 1 to 3 minutes, depending on the graphic. A simple DOODLE screen dump might only take seconds, depending on the software.

You might want to include a forced page character in your *TWS* and *SpeedScript* documents. Again, this is a page printer. The printer won't print until a page is filled or fed either with a forced page from your software or the form feed button on the face of the printer. You might turn the printer off with the last page in RAM.

You're looking at bitmapped output, not the actual fonts of the printer. At 300 dpi, this is about as fine a print as you can get and still look halfway sharp. There are 14 fonts onboard, but they are dependent on the emulation mode selected.

The printer emulates five printers, a couple of them unlikely: *HP PCL 4, Epson FX-80, IBM Graphics Printer, IBM Proprinter* and the *Diablo 630.* All of these printers can be chosen by name from the menu. A real *HP PCL 4* can process compressed bitmaps for higher speed. I tried sending compressed data and saw garbage printed. So the emulation, at least apparently, isn't full.

The cost of replacing the toner is an unknown for me at present. The local "Lazer's Edge" store has never heard of the JX-9400, though they know of the 9500 and 9600. I've heard quotations of $50-$120 for toner replacement. This may seem expensive, but mind you a full toner cartridge will print 15,000 jet black pages. That's 30 reams of paper! The next time I change my toner may well be the last time in the life of the printer!

The manual tells me that the toner lasts for 15,000 pages, but that perhaps (it's unclear) the cartridges shipped with the printer are good for a mere 5000 pages. If I understand this correctly, I say bully to *SHARP* on that one. Why not give me the real thing?

The printer is warranted for 1 year. I like my new laser printer. I wish I had enough money for the 600 DPI jobs, but I don't. Maybe next year. I have no idea how much this printer retails for. From *J&R*, it's $489, which is probably below wholesale. I should know because I was a dealer of *Casio* keyboards for a while, and found that *J&R* sold them for below my wholesale price. ❑

J&R Computer World
Department C04
59-50 Queens Midtown Expressway
Maspeth, NY 11378-9896
Orders: 1-800-221-8180
Questions:1-718-417-3743

SORRY!

Last month I promised more programming, and a review of Rio's COMCEN genlock for the C-64. Well this newsletter filled up before I was ready! I'll be back next month with fewer promises, and that COMCEN review.

...Jeff

CMD Utilities Makes A Good Showing

The guys at *CREATIVE MICRO DESIGNS* may not like this review because it'll probably be too short. It won't cover every feature of the product in sufficient detail. After all I only have 8 pages, and more than ten programs to review.

I didn't have time to immerse myself into *CMD UTILITIES*, so I'm not sure if software was included to print out the docs, which are formatted for 80-columns and nearly fill side B of the disk. I instinctively typed @p,4,7 and typed @t to use *JiffyDOS* to print out the docs. It took about a half hour with my *Panasonic KXP-1123* printer.

CMD UTILITIES is a bag of goodies that has almost everything you need if you own a CMD drive, hard drive or *RAMLink*. *MCOPY* and *FCOPY* are enhanced, and that are many more tools for your use. There's also *BCOPY*, which backs up your mass storage devices.

Also included is *MENUETTE*, a very slick command console that navigates through your *CMD* devices and "*launches*" (hmmm, a part- time *MAC* user must have written these docs) your BASIC and ML programs. *MENUETTE* is one of the few programs that use a mouse, joystick or keyboard interface. You'll find it useful if you want to act on files buried deep in partitions and subdirectories.

The docs for *MENUETTE* are 160 blocks, which is a window to the scope of the program. It's a good program to have autoboot when your system is powered up (if you have *RAMLink* or *RAMDrive*).

MCOPY is a disk copier. The M is for Mirror Copy. It copies like disks and partitions to and from each other. *MCOPY* is the program you'd use to copy disks -- most any disk if you have two types of any kind of drive. If you have an *FD, HD, RAMLink*, two 1541/71/81 drives, *MCOPY* will backup the disks with a full verify. My old version of *MCOPY* won't format a disk before it copies it. This version of *MCOPY* will format each track as it copies, minimizing the amount of time you spend on bad disks. *MCOPY* is used to copy our 3.5-inch editions of *LOADSTAR*.

CMD UTILITIES also consists the following programs, which I don't have the space to review:

HD POWER TOOLS: Edits partition table. **CMD DIR SORT:** A basic directory sorter. **DEDIT:** A more advanced directory editor with more features and speed (the one you'll use). **FOLLOW LINKS:** Locates and eradicates corrupt files. **REBUILD PDIR:** Emergency data reconstruction **FIND:** Locates files nested deep into hard drives. **CMD MOVE:** *GEOS* program for moving between partitions. **CMDTIME:** Auto-exec *GEOS* file that sets GEOS time from CMD clock. **CONVERT 41<>71:** Does what it says. **COMPARE:** Compares two disks or partitions sector for sector. **SUBPARTITION AID:** Helps create 1581 sub partitions on CMD partitions or CMD subpartitions on 1581 disks.

CMD UTILITIES gets a thumbs up, and is available for $24.95 From:

Creative Micro Designs, Inc.
P.O. Box 646
East Longmeadow, MA 01028
Orders (800) 638-3263
Info (413) 525-0023

Club Information

Overweight/diet/friendship diabetic club information SASE. Judy Kerns, RD #2 Box 423-LS, Claysvill PA 15323-9418

WHAT'S THE #1 REASON TO BUY JEFF JONES' MUSICAL SMASH, SOUNDSCAPES?

3. It sounds great!
2. It contains no backward masking!
1. It helps pay Jeff's bills!

"It's my first album. I've never been more proud of any personal project. Soundscapes was a year in the making, and well worth the wait."

...Jeff Jones

Recorded entirely in Jeff Jones' bedroom in the wee hours of the morning. Hear programmer and synthesist, Jeffrey L. Jones of *LOADSTAR* fame masterfully play his keyboards and digital horn. 60 minutes of original music. Recorded on a quality *Maxell* Chrome tape with *Dolby C HX PRO*. This album was created with some of the latest technology, with 16-bit sound and 24-bit effects. *SOUNDSCAPES* is not SID music. Each tape produced entirely by Jeff Jones.

VISA **CREATIVE MUSICIAN COALITION** MasterCard
1024 W. Wilcox Avenue
Peoria, IL 61604
Credit card orders:1-800-882-4CMC (4262)
$8.95 + $2.50 Shipping Item# JONES 100-C TAPE

Q: What do all of these drives have in common?
A: They all perform at their best with The Compression Kit.

NEW **The Compression Kit** Backup System FAST

7 HOT Must Have Utilities

- **Filemaster:** Copy, move, delete, and replace files with ease. (The in house favorite.)
- **Procopy:** Copy 1541/1571/1581 disks and CMD native partitions (Single or dual drives.)
- **Archiver:** The consumate file backup utility. (It's so powerful and easy to use, it'll make you scream!)
- **1541 Disk Boa:** Squeeze those 1541 5.25" SS/DD Disks into convenient backup files (Backup those disks.)
- **1571 Disk Boa:** Squeeze your 1571 5.25" DS/DD Disks into convenient backup files (That means both sides folks.)
- **1581 Disk Boa:** Squeeze those big 1581 3.5" DS/DD Disks into convenient backup files.
- **CMD Native Boa:** Backup your CMD Native Partitions with confidence (Safeguard your valuable data.)

All utilities include a full featured 3 stage verify.
Menu driven - No cryptic command codes.
Includes a full sized custom 3 ring binder with a 50+ page, easy to understand User's Manual.

"Now shipping v1.04"

Please enclose check or money order for ***$39.95*** *plus shipping and send to:*

Mad Man Software
1400 East College Drive
Cheyenne, Wy.82007
(307) 632-1178 information

U.S. Mail / P.O. Box / Canada $5.00
Foreign $10.00
UPS
2nd Day (U.S.) $6.50 (AK,HI) $10.50
Next Day (U.S.) $15.50 (AK,HI) $20.50

dieHard

the Flyer for commodore 8bitters

The perfect way to stay connected to the **commodore** world!!

Subscribe today!!!

Each issue of *dieHard* comes packed with information to make your **commodore** work better for you and help keep you connected to other **commodore** dieHards. Here's what you'll get with your subscription to *dieHard*:

- Tips on all major **commodore** software and hardware like **GEOS**, Super Snapshot, Laser Printing, **Fleet System**, and more!!!
- Programming tutorials. Our *Basic BASIC* column is introducing many readers for the first time to BASIC programming.
- Our annual public domain issue reviews the available software in the public domain and passes the best on to you.
- Our annual *Rarities* issue lists all sources of **commodore** equipment so you can find that program or piece of hardware that you've been looking for.
- Type-in programs and more type-in programs!!!
- Information on:
  telecommunicating
  music on your commodore
  printing
  memory management
  AND MORE!!!

Check out these savings! With as much as 49% off the cover price of $2.95 you can't afford *not* to subscribe! And don't forget the companion disk -- *The Spinner!* Subscribe today and save!

Become a permanent member of our **dieHard** family with a full subscription. Share with us in further exploration of your **commodore** computer!!!!

- ☐ One Year, (10 issues) **$16.97** that's **42%** off the cover price!
- ☐ One Year, (10 issue) with the **Spinner** companion disk **$49.97**
- ☐ Two Years, (20 issues) **$29.97** that's **49%** off the cover price!!!
- ☐ Two Years, (20 issues) with the **Spinner** companion disk **$94.97**

Name _____

Address _____

City _____ ST ____ Zip ____

☐ Payment Enclosed

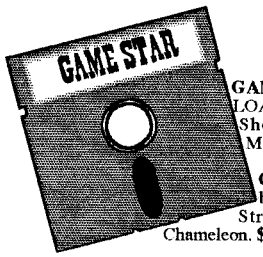
☐ Bill Me

Mail to:
dieHard
P.O.Box 392
Boise, ID 83701-0392

Please make check or money order payable to **dieHard**. Idaho residents must add 5% sales tax.

lease allow 6 to 8 weeks for delivery of rst issue. Make check or money order ayable to **dieHard**. Idaho residents must dd 5% sales tax.

LOADSTAR Products!



GAME STAR #1 - Brand new! Eight of the best games from LOADSTAR #70 - #100). The Tenement, Stack 'Em, The Sherwood Open, Gems, Stealth Bomber, Eagle Eyes, Moonraker and Circuitry. **$9.95 (C-64/128) Item 080825**

CARD STAR #1 - Brand new! Eight of Maurice Jones' best card solitaire games. Klondike, Double or Quits, Strategy, Captive Queens, Baroness, Golf, Collins and Chameleon. **$9.95 (C-64/128) Item #080925**

GEOPOWER TOOLS - 19 Geos utilities: Calendar Printer, Fast Format, Geo Fetch (grab any portion of a screen as a Photo Scrap), Phoenix (resurrect a trashcanned file), Programmer's Calculator are just a few of the handy tools. Side Two is filled with Clip Art (in Photo Album format) and fonts. **$19.95 (C-64/128) Item #080525**

SONGSMITH - LOADSTAR's own music-making program. With this deluxe music editor/player you can easily transcribe music from sheet music or make up your own tunes. Songsmith comes with a slick 30-page manual and a jukebox player with eight tunes. **$19.95 (C-64/128) Item #069525**

JUST FOR FUN - Eight original games. There are arcade games, educational games, puzzle games and just games that are just plain fun on this disk. **$9.95 (C-64/128) Item #073525**

MUSIC BY MARQUIS - 45 songs in the SID format with music player. Enjoy classic music from around the world, transcribed by master computer musicologist, Dr. Dave Marquis. **$9.95 (C-64/128) Item #080625**

FUN FOUR - Four original games. A huge maze game, trivia game, solitaire and a space shoot 'em up -- all runnable from a menu. **$9.95 (C-64/128) Item# 080725**

GRAFIX GALLERY #1 - Print Shop graphics galore. This disk has one side full of 3-block graphics and the other full of 2-block graphics. **$9.95 (C-64/128) Item #070025**

GRAFIX GALLERY #2 - Even more PS graphics. Two hundred of them in the 3-block format, accompanied by PRINT SHOPPING BAG, LOADSTAR's powerful PS-PRINTMASTER (tm) converter and displayer. **$9.95 (C-64/128) Item #070125**

THE COMPLEAT DOS & DON'TS 40 articles on the 1541 disk drive. This information is essential to the beginning programmer and user. **$9.95 (C-64/128) Item #082425**

BRAINPOWER/BRAINSTORM - 80 -column word processor and idea processor for the C-128. These two programs are together on one disk. It comes with a detailed 32-page manual. **$9.95 (C-128 only) Item #069421**

BEST OF LOADSTAR #1 Anthology disk. **$9.95 (C-64/128) Item #049125**

BEST OF LOADSTAR #2 Anthology disk. **$9.95 (C-64/128) Item #049225**

BEST OF LOADSTAR #3 Anthology disk. **$9.95 (C-64/128) Item #049325**

BEST OF LOADSTAR #4 Anthology disk. **$9.95 (C-64/128) Item #049425**

BEST OF LOADSTAR #5 Anthology disk. **$9.95 (C-64/128) Item #049525**

MASTER BASE - Database of users' groups for the 80-column C-128. This is a fast, powerful database program for handling addresses and mailing labels (includes barcode printing). The disk also has a file of over 600 users' groups addresses. **$4.95 (C-128 only) Item #081025**

Visa/Mastercard Discover and Amex Accepted!

Credit card orders: ☎1-800-831-2694

Softdisk Publishing
P.O. Box 30008, Shreveport, LA 71130-0008
Domestic shipping $4.50 International Shipping $10.00. All funds in US dollars

LNF113

C-128-d or C-128 w/ 64K video RAM

Quest for Adventure

Mouse or Joystick required
Specify 1541 or 1571 drive

Send Check or Money order to:
$19.95

Russian Wyatt
8614 Bramble Ln #203
Randallstown, MD 21133

COMPUTER REPAIR

BEAR TECHNOLOGIES

C-64:$40.00 1541:$54.95 64C:$50.00
1541-II:$64.95 C-128:$64.95 C128D:$74.95 1581:$64.95
ETC...
We Also Repair IBM Clones, Sega Genesis, Nintendo
For more info call:

BEAR TECHNOLOGIES
Computer Sales, Service & Repair
1005 McKean Street
Philadelphia, PA 19148
215-336-5295 1-800-755-5295

VISA MasterCard

SOFTWARE CLOSEOUTS
For Commodore 64 & 128

ANY ITEM IN THIS AD.... ONLY $5
BUY 10, GET 1 EXTRA FOR FREE!!

STARCROSS, ALCON, UNDER FIRE, MACBETH, RASTAN, BUBBLE BOBBLE, ARKANOID, QIX, SKY SHARK, AXE OF RAGE, CHAMPIONSHIP BASEBALL, DAMBUSTERS, DEADLINE, DEATH SWORD, METROCROSS, ONE MAN & HISDROID, PLASMATRON, PRO-GOLF, HELLCAT ACE, SUSPENDED, WORLD KARATE CHAMPIONSHIP, ZORK 2, ZORK 3, DR. DOOM'S REVENGE, RENEGADE, ARTURA, BUTCHER HILL, CONFLICT IN VIETNAM, PRESIDENT ELECT, SKATEWARS, THE MANAGER, CHESSMASTER 2100, TERROR, GHOSTWRITER 128, DESTROYER ESCORT, RICK DANGEROUS, T.V. SPORTS FOOTBALL, SPACE HARRIER, M.A.C.H., F-15 STRIKE EAGLE, AIRBORNE RANGER, RAMBO 3, FAST BREAK, ACROJET, HEROES OF THE LANCE, NETHERWORLD, XENOPHOBE, DIE HARD, TAKE DOWN, THE GAMES:WINTER, GOLDEN OLDIES, WORLD'S GREATEST FOOTBALL, MINDSHADOW, TOWER TOPPLER, SPORTS-A-RONI, BEYOND THE BLACK HOLE, SNOW STRIKE, CALIFORNIA GAMES, DREAM TEAM, DEVON AIRE, FIGHT NIGHT, JET BOYS, SUPER SUNDAY, BOP 'N RUMBLE, TRI-MATH, TECHNO-COP, MAGIC MADNESS, TURTLE TOYLAND JR., AMAZING SPIDERMAN, RAMBO, STATIS PRO BASEBALL, SGT. SLAUGHTER, CLUBHOUSE SPORTS, DIG DUG, CUTTHROATS, CROSSBOW, COMICS, KILLED UNTIL DEAD, PSI 5 TRADING CO., TAG TEAM, PRO TOUR GOLF, DRAGONS OF FLAME, TAU CETI, GREAT ESCAPE, ARMY MOVES, CASTLEVANIA, CAPTAIN FIZZ, DOUBLE DRIBBLE, METAL GEAR, HARMONY, HEAT WAVE, STEEL THUNDER, COMBAT COURSE, INTO THE EAGLE'S NEST, INDOOR SPORTS, GAUNTLET 2, BOSTON COMPUTER DIET, ZORK 1, BAD DUDES, BATMAN CAPED CRUSADER, BATMAN THE MOVIE, MONDAY NIGHT FOOTBALL, QUANTUM LINK, EYE OF HORUS, MATH MAZE, DESIGNASAURUS, GRAMMER EXAMINER, EUROPEAN NATIONS, TURBO OUTRUN, B.A.T., WARLOCK, THUD RIDGE, DARK CASTLE, SUMMER GAMES 2, WINTER GAMES, IMPOSSIBLE MISSION 2, SUB BATTLE SIMULATOR, WORLD GAMES, UNTOUCHABLES, DIVE BOMBER, STREET SPORTS BASKETBALL, STREET SPORTS SOCCER, CHAMIONSHIP WRESTLING, STREET SPORTS BASEBALL, DESTROYER, CHIPS CHALLENGE, SKATE ROCK, 30in1 UTILITY CARTRIDGE, TONY LARUSSA BASEBALL, PARALLAX, SPY VS. SPY, NINJA, QUEST OF THE SPACE BEAGLE, SHOGUN, FEUD, MISSION ON THUNDERHEAD.

TO RECEIVE OUR COMPLETE CATALOG OF ALL SOFTWARE FOR C-64/128 AS WELL AS ALL OTHER COMPUTER TYPES, JUST PLACE AN ORDER FROM THIS AD, OR, IF YOU ARE NOT PLACING AN ORDER, YOU MAY RECEIVE OUR CATALOG BY SENDING $2.00 IN U.S. POSTAGE STAMPS OR CASH ALONG WITH YOUR NAME & ADDRESS TO OUR ADDRESS BELOW. WE WILL SEND YOUR CATALOG BY FIRST CLASS MAIL!!

VISA/MC ORDERS CALL TOLL-FREE
1-800-676-6616
Credit Card Orders Only ! ! ! ! ($25 minimum)

TO ORDER: Send check or money order, including shipping charges of $5 for U.S.A., $8 for Canada, $16 all others.
California addresses must include 7.25% sales tax.
To check for an item not listed here, or other info, call (805) 544-6616.
ALL SALES FINAL!!! SUPPLIES ARE LIMITED!!

COMPSULT
P.O. BOX 5160
SAN LUIS OBISPO, CA 93403

WE HAVE LOTS MORE C-64/128 PLUS TONS OF SOFTWARE FOR IBM, APPLE, MAC, AMIGA, ATARI & MORE!

SOFTWARE SUPPORT INTERNATIONAL

We Stock America's Largest Selection Of C-64/C-128

Thousands of Commodore Owners Choose Us As Their One Stop Supplier . Here's Why!

* **Largest Selection of Commodore Software in the U.S.A.!**
  After six years in business. nobody in the Commodore market is more committed to your Commodore than we are. We have well over 225,000 pieces of hard to get software in stock to service your every need. If you've heard of a product, odds are that we can locate it for you. And, we stock most major Commodore titles that are still in production.
* **Hardware & Peripherals.**
  Although we can't get keyboards and disk drives any longer, we can offer disks, modems, cables, interfaces, and much more.
* **Used Software Selection.**
  Our regular customers know how to stretch their software dollars shopping our Used Software Listings.
* **Un-Advertised Specials.**
  Our regular customers enjoy VIP service and great bargains that are hard to pass up.
* **Expert Technical Support.**
  As a regular Software Support customer, you have access to the most knowledgeable Commodore technical departments in the country. Of this, we're darn proud.
* **Friendly & Courteous Order Takers.**
  You'll have a hard time finding order takers as anxious to help you as Sandy, Mike and Claressa.
* **Fast Order Processing.**
  Thanks to our automated computer system, huge inventory and efficient shipping staff, most orders are processed the same day.
* **Walk In Sales Department.**
  We welcome visitors to our warehouse outlet. The same great deals are available and best of all, no shipping charges.
* **Worldwide Distributor Of Major Products.**
  Ever hear of Maverick, Super Snapshot, Super 1750 Clone, and the 1581 Toolkit? We've been actively involved in the ground up production and world-wide distribution of these and many other fine Commodore products.
* **Purchase From Us With Confidence.**
  We were very pleased when the Better Business Bureau came to us and told us that our outstanding reputation qualified us as members in their organization. We're here to stay, not a fly by night, here today and gone tomorrow outfit.
* **Extensive Catalog.**
  Our contacts at other mail order companies have told us that producing a catalog such as ours is too time consuming and worst of all - too expensive. We say it's the least we can do for our customers, and wouldn't have it any other way. Simply call or write for your free copy.

Check Out These Examples...

GAMES

Leaderboard Golf	$9.97
Beachhead Triple Pack	$9.97
Nord & Bert	$12.97
Ms. Pacman	$9.97
Trump Castle Casino	$9.97
Bureaucracy 128	$12.97
Defender of the Crown	$9.97
Beyond Zork 128	$12.97
4 x 4 Off Road Racing	$4.97
Sega Arcade Smash Hits	$14.97
Adventure Creator	$7.97
Wheel Fortune 1-2-3 Bundle	$9.97

EDUCATIONAL

Thinking Cap	$12.97
Stickybear Math	$9.97
Carmen U.S.A.	$26.97
Typing Tutor 3	$12.97
Word Attack	$9.97
Reader Rabbit	$9.97
Sky Travel	$19.97
Lovejoy Prep For SAT	$12.97
Word Spinner	$9.97

PRODUCTIVITY

Super 1750 Clone	$99.95
Newsroom	$14.97
Certificate Maker	$14.97
Cadpak 64	$14.97
Mach 128 Cart	$24.97
Paperclip III 64/128	$29.97
Printmaster Plus	$19.97
Superbase 64 or 128	$24.97
Video Title Shop	$19.97
Word Writer 3	$9.97
Outrageous Pages	$24.97
Bob's Term Pro 64	$19.97

Items Listed Above Do Not Include Shipping. Call Or Write For Your Free Catalog Listing Hundreds Of Products And Special Offers For Your Computer. Our Order Takers Are On Duty 6:00 a.m. - 5:00 p.m. M - F and 7:00 a.m. - 3:00 p.m. Sat. - Pacific Time.

SOFTWARE SUPPORT

Software Support Int.
2700 N.E. Andresen Rd.
Suite A-10
Vancouver, Wa 98661
(206) 695-1393

CALL TOLL FREE TODAY! **1-800-356-1179**

Major Credit Cards Accepted.

CMD has GEOS Software in Stock and Ready to Go

RAMLink Power-Backed REU

RAMLink with 0 MB RAMCard	$199.95
RAMLink with 1 MB RAMCard	$229.95
RAMLink with 4 MB RAMCard	$349.95
Real-Time-Clock for RAMCard (Optional)	$20.00
RAMLink Battery Back-up (Optional)	$24.95
Parallel Cable (RAMLink to HD)	$14.95
1 or 4 MB SIMM's	$52/$170

HD Series SCSI Hard Disk Drives

HD-40, 85 MB (Special Edition)	$495.00
HD-100, 170 MB (Special Edition)	$595.00
HD-200, 245 MB (Special Edition)	$695.00

FD Series 3.5" Floppy Disk Drives

FD-2000 (800K and 1.6 MB)	$179.95
FD-4000 (800K, 1.6 MB and 3.2 MB)	$249.95
FD Real-Time-Clock Option	$20.00
Box of 10, High Density Disks (1.6MB)	$14.95
Box of 10, Enhanced Density Disks (3.2 MB)	$40.00
Single ED-Disk. (3.2 MB)	$5.00

JiffyDOS

(Specify computer and drive serial number)

JiffyDOS C64-System	$49.95
JiffyDOS SX-64 System	$49.95
JiffyDOS C-128 System	$59.95
JiffyDOS 128-D System	$59.95
Additional Drive ROM's	$24.95

CMD Software

gateWay/64 or 128 (GEOS Desktop)	$29.95
Collette Utilities (Handy Geos Utilities)	$19.95
Perfect Print LQ for GEOS (Laser-like output)	$49.95
geoMakeBoot (Makes Bootable copies)	$12.95
CMD Utilities (Powerful Disk Utilities)	$24.95
JiffyMON (ML Monitor for JiffyDOS 64)	$19.95

GEOS

GEOS 64 v2.0	$44.00
GEOS 128 v2.0	$49.00
geoCalc 64	$40.00
geoCalc 128	$45.00
geoFile 64	$40.00
geoFile 128	$45.00
geoProgrammer	$45.00
geoPublish	$40.00
geoChart	$29.00
Desk Pack Plus	$29.00
FONTPACK	$25.00
International FONTPACK	$25.00
geoBASIC	$20.00
BeckerBASIC	$20.00
RUN GEOS Companion	$20.00
RUN GEOS Power Pak I or II (Specify)	$20.00

Games

AcroJet	$12.00
Airborne Ranger	$16.00
Atomino	$17.00
Ballistix	$13.00
Blackjack Academy	$12.00
Blood Money	$15.00
Chompl	$10.00
Conflict in Vietnam	$16.00
Elvira, Mistress of the Dark	N/A
F-15 Strike Eagle	$16.00
F-19 Stealth Fighter	$20.00
Laser Squad	$13.00
Mainframe	$13.00
Marble Madness	$13.00
Menace	$15.00
Navy Seal	$10.00
Red Storm Rising	$16.00
Rings of Medusa	$16.00
RUN C128 Funpak	$15.00
RUN C64 Gamepak	$15.00
RUN C64 Strategy Games 1 or 2 (Specify)	$15.00
Silent Service	$16.00
Skate or Die	$13.00
The Amazing Spider-Man	$15.00
The President Is Missing!	$10.00
The Three Stooges	$10.00
Tie Break Tennis	$16.00
Total Eclipse	$10.00
Ultima III, IV, (Please Specify)	$17.00
Wizardry V	$24.00

Productivity

OmniWriter with OmniSpell (Skyles)	$30.00
Word Writer 6 (Timeworks)	$30.00
Super Script 64 (Precision)	$15.00
Super Script 128 (Precision)	$20.00
Data Manager 2 (Timeworks)	$16.00
Suberbase 64 Version 3.01 (Precision)	$35.00
Superbase 128 Version 3.01 (Precision)	$35.00
PowerPlan 64 (Abacus)	$16.00
SwiftCalc 64 (Timeworks)	$16.00

Other Productivity

Cadpak 64 (Abacus)	$22.00
Cadpak 128 (Abacus)	$25.00
Chartpak 64 (Abacus)	$17.00
Chartpak 128 (Abacus)	$25.00
RUN Productivity Pak I, II, or III (Specify)	$15.00
RUN Super Starter Pak 1541	$20.00
RUN Super Starter Pak 1581	$20.00
RUN Works	$20.00
Sky Travel (Astronomy)	$20.00

Languages/Compilers

BASIC 64 Compiler (Abacus)	$17.00
BASIC 128 Compiler (Abacus)	$25.00
Blitz! 64 Compiler (Skyles)	$30.00
Blitz! 128 Compiler (Skyles)	$30.00
Cobol 64 (Abacus)	$17.00
Fortran 64 (Abacus)	$17.00
Pascal 64 (Abacus)	$17.00
Big Blue Reader **NEW!!!** Version 4.1	$39.00

Music/MIDI Software

Dr. T KCS64 & Model-T Midi Interface	$105.00
Dr. T KCS128 & Model-T Midi Interface	$149.00
Dr. T Algorithmic Composer	$20.00
Dr. T 4-OP MIDI Ed/Lib	$20.00
Dr. T CZ-Rider MIDI Ed/Lib	$20.00
Dr. T DX-7 MIDI Ed/Lib	$20.00

Abacus Books

1541 Repair and Maintenance Guide	$15.00
Anatomy of the 1541	$12.00
C128 Tricks & Tips/ Peeks & Pokes	$15.00/$15.00
C128 Computer Aided Design	$12.00
Commodore 64 Tricks and Tips	$12.00
Graphics Book for the C-64	$12.00
Printer Book for the C64	$12.00
Ideas for Use on Your C-64	$10.00

Telecommunications

Dialogue 128	$29.00
SpeedTerm (Abacus)	$25.00
SwiftLink RS-232 Cartridge (Up to 38.4K baud)	$39.95
SwiftLink Modem Cable (DB9-DB25)	$9.95
Commodore 1660 Modem (300 baud)	$10.00
BOCA 2400 Baud Modem	$79.00
BOCA 2400 w/SwiftLink and Cable	$119.00
BOCA 14.4K Baud Modem	$219.00
BOCA 14.4K w/SwiftLink and Cable	$249.00

Misc. Hardware

SID Symphony Stereo Cartridge	$39.95
GeoCable Compatible Print Cable	$20.00
Xetec Super Graphix Jr.	$45.00
B.P. C-64/128 Joystick (Great Buy)	$9.00
2+1 Cartridge Port Expander	$45.00
IEEE Flash! 64 IEEE Interface	$90.00
Quicksilver 128 IEEE Interface	$120.00
C-1351 Mouse	CALL
C-64, C-64C Power Supply (Repairable)	$39.00
C-128 Power Supply (Repairable)	$45.00
1581/1541-II Power Supply	$25.00

ORDERS: (800) 638-3263
INFO: (413) 525-0023

ReRUN Disks

(Any: 1 for $10, 3 for $18, 6 for $24)

- 1985 -
Spring '85 — Summer '85
Fall '85

- 1986 -
January/Febuary — March/April
May/June — July/August
September/October — Nov/Dec

- 1987 -
January/February — March/April
May/June — July/August
September/October — Nov/Dec

- 1988 -
January/February — March/April
May/June — July/August
September/October — Nov/Dec

- 1989 -
January/February — March/April
May/June — July/August
September/October — Nov/Dec

- 1990 -
January/February — March/April
May/June/July — Aug/Sept/Oct
Summer Spcl. — Nov/Dec

- 1991 -
January/February — March/April
May/June — July/August
September/October — Nov/Dec

- 1992 -
January/February — March/April
May/June — July/August
September/October — Nov/Dec

RUN Back Issues

(Any: 3 for $10, 6 for $18, 12 for $24)

- 1988 -
January, February, March, April, May, June, July, August

- 1989 -
January, February, March, May, June, July, August, September, October

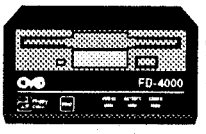
- 1990 -
January, May, June/July, December

- 1991 -
Jan/Feb, June/July, Sept/Oct

- 1992 -
January/February, March/April, May/June, July/August, September/October November/December

SCSI Hard Drive for the C64 & C128

HD Series Hard Drives are available in capacities up to 200 MB, are fully partitionable, and can emulate 1541, 1571, & 1581 disks while Native partitions utilize MSDOS-style subdirectories. HD's connect easily to the serial bus or parallel via RAMLink. Includes built-in JiffyDOS, SWAP feature and Real-Time-Clock. HD Series Drives offer superior compatibility with most commercial software including BBS, Productivity and GEOS. And with new pricing, HD Series drives offer the lowest cost/MB of any C64/128 storage device.



1.6 MB and 3.2 MB 3.5" Floppy Disk Drives

The FD-2000 and FD-4000 disk drives utilize today's latest 3.5 inch technology. FD-2000's support 800K (1581 style) and 1.6 MB (High Density) formats, while the FD-4000's offer support for the 3.2 MB (Enhanced Density) format as well. Fast and reliable, they support 1541, 1571 and 1581 style partitions, Native Mode partitioning and can actually read and write 1581 disks. FD's feature built-in JiffyDOS, SWAP button and optional RTC. High capacity, speed and compatibility make the FD right for every application, including GEOS.

Power Backed Expandable REU

The fastest possible form of storage, RAMLink provides instant access to files and retains data while your computer is turned off. Easy to use and expandable up to 16 MB, RAMLink utilizes the same powerful operating system found in the HD. RAMLink also offers built-in JiffyDOS, SWAP feature, reset button, enable/disable switch, pass-thru port and RAM port for REU/GEORAM use. Ideal for those requiring maximum speed, expandability and compatibility with all types of software and hardware including GEOS.

JiffyDOS — Speeds up disk access by up to 1500% while retaining 100% compatibility with software

- Speeds up Loading, Saving, Verifying, Formatting and Reading/Writing of Program, Sequential, User and Relative files unlike cartridges which only speed up Loading and Saving of PRG files
- Built-in DOS Wedge plus 17 additional features including file copier, text dump, printer toggle, and redefinable function keys make using your computer easier and more convenient
- ROM upgrade installs easily into most computers and disk drives. Supports C-64, 64C, SX-64, C-128, 128-D, 1541, 1541C, 1541-II, 1571, 1581 and more. 128 system supports both 64 and 128 modes and upgraded Kernal routines.

U.S. Shipping Information

Books & Software: First Item $5.00, plus $1.00 for each add'l item. **Hardware:** $5.50 per item, 2nd Day Air $10.00. **Power Supplies:** $7.50 ea, 2nd Day Air $14.00. **Hard Drive:** $15.00, 2nd Day Air $25. **RAMLink, FD Drive:** $9.00, 2nd Day Air $16.00. **RUN Issues:** $5.50 (3), $6.50 (6), $7.50 (12). **Note:** Prices subject to change without notice. Call for current price and availability. ALL Foreign Orders Call or Write for shipping details. **Payment:** MC, Visa, Money Order or Bank Check. COD shipments add $5.00. COD's over $200.00 require advanced deposit. Personal checks are held for 3 wks. No refunds on opened software. 30 day return policy. 10% restocking fee is required on all returns.

Creative Micro Designs, Inc.
P.O. Box 646, E. Longmeadow, MA 01028
Orders: (800) 638-3263
Info: (413) 525-0023
BBS: (413) 525-0148
Office Hours: 9AM to 5PM, EST, Monday thru Friday.